

FIG. 1A

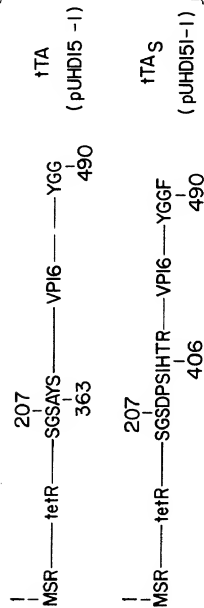


FIG. 1B

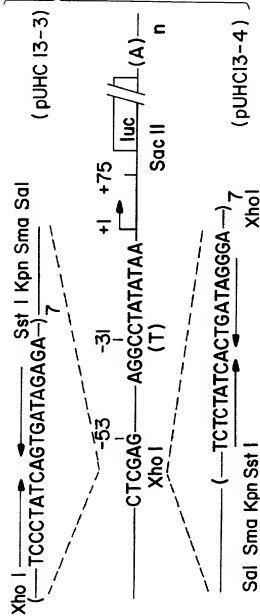


FIG. 2B

FIG. 3A

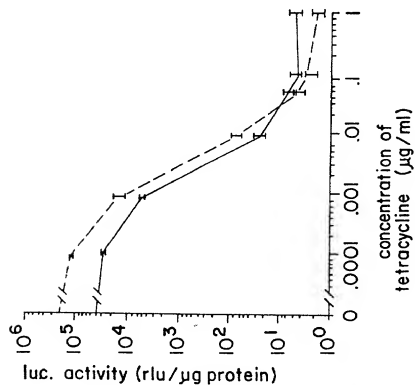
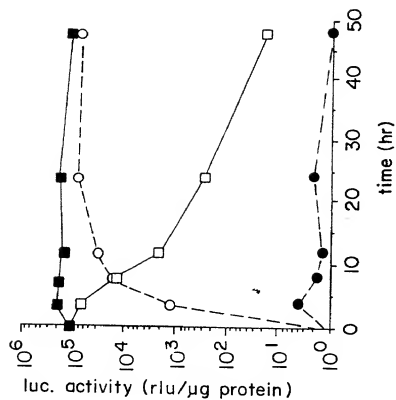


FIG. 3B



ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
 Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Leu Asn

 GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
 Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

 GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
 Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Leu Asp Ala

 TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
 Leu Ala Ile Glu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

 GAA AGC TGG CAA GAT TTT TTA CGT AAT AAG GCT AAA AGT TTT AGA TGT GCT TTA
 Glu Ser Trp Gln Asp Phe Leu Arg Asn Lys Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 4A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 4B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Leu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCC GCG TAC AGC CGC GCG CGT ACG AAA AAC
Lys Gln Leu Lys Cys Glu Ser Gly Ser Ala Tyr Ser Arg Ala Arg Thr Lys Asn

AAT TAC GGG TCT ACC ATC GAG GGC CTG CTC GAT CTC CCG GAC GAC GCC GCC CCC
Asn Tyr Gly Ser Thr Ile Glu Gly Leu Asp Leu Pro Asp Asp Ala Pro

GAA GAG GCG GGG CTG GCG GCT CCG CGC CTG TCC TTT CTC CCC GCG GGA CAC ACG
Glu Glu Ala Gly Leu Ala Ala Pro Arg Leu Ser Phe Leu Pro Ala Gly His Thr

CGC AGA CTG TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC
Arg Arg Leu Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His

Fig. 4C

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TTA GAC GGC GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT
Leu Asp Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp

CTG GAC ATG TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC
Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp

TCC GCC CCC TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT
Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Met Phe

ACC GAT CCC CTT GGA ATT GAC GAG TAC GGT GGG TAG
Thr Asp Pro Leu Gly Ile Asp Glu Tyr Gly Gly *

Fig. 4D

ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
 Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

 GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
 Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

 GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
 Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala

 TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
 Leu Ala Ile Clu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

 GAA AGC TGG CAA GAT TTT TTA CGT AAT AAC GCT AAA AGT TTT AGA TGT GCT TTA
 Glu Ser Trp Gln Asp Phe Leu Arg Asn Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 5A

CTA AGT CAT CGC GAT GGA GCA AAA GTA CAT TTA GGT ACA CGG CCT ACA GAA AAA
Leu Ser His Arg Asp Gly Ala Lys Val His Leu Gly Thr Arg Pro Thr Glu Lys

CAG TAT GAA ACT CTC GAA AAT CAA TTA GCC TTT TTA TGC CAA CAA GGT TTT TCA
Gln Tyr Glu Thr Leu Glu Asn Gln Leu Ala Phe Leu Cys Gln Gln Gly Phe Ser

CTA GAG AAT GCA TTA TAT GCA CTC AGC GCT GTG GGG CAT TTT ACT TTA GGT TGC
Leu Glu Asn Ala Leu Tyr Ala Leu Ser Ala Val Gly His Phe Thr Leu Gly Cys

GTA TTG GAA GAT CAA GAG CAT CAA GTC GCT AAA GAA GAA AGG GAA ACA CCT ACT
Val Leu Glu Asp Gln Glu His Gln Val Ala Lys Glu Glu Arg Glu Thr Pro Thr

ACT GAT AGT ATG CCG CCA TTA TTA CGA CAA GCT ATC GAA TTA TTT GAT CAC CAA
Thr Asp Ser Met Pro Pro Leu Leu Arg Gln Ala Ile Glu Leu Phe Asp His Gln

Fig. 5B

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
 Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCT GAT CCA TCG ATA CAC ACG CGC AGA CTG
 Lys Gln Leu Lys Cys Glu Ser Gly Ser Asp Pro Ser Ile His Thr Arg Arg Leu

TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC TTA GAC GGC
 Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp Gly

GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT CTG GAC ATG
 Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC TCC GCC CCC
 Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp Ser Ala Pro

Fig. 5C

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TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT ACC GAT GCC
Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Gln Met Phe Thr Asp Ala

CTT GGA ATT GAC GAG TAC GGT GGG TTC TAG
Leu Gly Ile Asp Glu Tyr Gly Gly Phe *

Fig 5D

GAATTCCTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAAGTCGAGTTTACCACCTC
 CCTATCAGTGATAGAGAAAAAGTGAAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGT
 GAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAAGTCGAGTTTACCACCTCCC
 TATCAGTGATAGAGAAAAGTGAAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGA
 AAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAAGTCGAGTCGGTACCCGGGT
 CGAGTAGGCGGTGACGGTGGGAGGCCTATATAAGCAGAGCTCGTTTTAGTGAACCGTCAGATCGC
 CTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAGAGACACCGGACCGATCCAGCCTCCGC
 GG

Fig. 6

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GAATTCTCGACCCGGGTACCGAGCTCGACTTTCACTTTTCTCTATCACTGATAGGGAGTGGTA
AACTCGACTTTCACATTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTTTCTCT
ATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTTTCTCTATCACTGATAGGGAGTGGTAAA
CTCGACTTTCACTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACTTTTCTCTAT
CACTGATAGGGAGTGGTAAACTCGACTTTCACTTTTCTCTATCACTGATAGGGAGTGGTAAACT
CGAGTAGGCGTGACGGTGGGAGGCGCTATATAAGCAGAGCTCGTTTTAGTGAACCGTCAGATCGC
CTGGAGACGCCATCCACGCTGTTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGC
GG

Fig. 7

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GAGCTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTC
TATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAA
ACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTA
TCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAAC
TCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGAGATCCGGCGAATTCGAAC
ACGCAGATGCAGTCGGGGCGGCGGTCCGAGGTCCACTTCGCATATTAAAGTGACGCGTGTGG
CCTCGAACACCGAG

Fig. 8

CTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAAGT
CGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAAGTCG
AGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTAA
GGCGTGTACGGTGGGAGGCCATATAAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGTACCTCCATAGAAAGACACGGGGACCGATCCAGCCTCCGCGGCCCC
GAATTCGAGCTCGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAAT
TCCAGGAGGTGGAGATCCGCGGGTCCAGCCAAAACCCACACCCATTCTCTCCCTCTGCCCC
TATATCCCGGCACCCCTCCTCTAGCCCTTTCCTCCTCCGAGAGACGGGGAGAGAGAAAAG
GGGAGTT'AGGTCGACATGACTGAGCTGAAGGCAAGGAACCTCGGGCTCCCCACGTGGCGGGC
GGCGGCCCTCCCCACCGAGGTCGGATCCCAGCTCCTGGGTGCGCCCGGACCTTGGCCCCCTTC
AGGGAGCCAGACCTCAGAGGCCCTCGTCTGTAGTCTCGGCCATCCCCATCTCCCTGGACGGGTT

Fig. 9A

GCTCTTCCCGCCCTGTCAAGGGCAGAACCCCCAGACGGGAAGACGCAGACCCACCGTCC
TTGTAGACGTGAGGGCGCATTTCTGGAGTCGAAGCCCCGAGGGGGCAGGAGACAGCAGCT
CGAGACCTCCAGAAAAGGACAGCGGCTGTGGACAGTGTCTCGACACGCTCCTGGGCGCCTC
GGGTCCCGGGCAGAGCCACGCCAGCCCTGCCACCTGCGAGGCCATCAGCCCGTGTGCTGCTTT
GGCCCCGACCTTCCCGAAGACCCCCGGGCTGCCCCCGTACCAAAGGGGTGTTGGCCCGCTCA
TGAGCCGACCCGAGGACAAGGCAGCGACAGCTCTGGGACGGCAGCGGCCACAAAGTGTGCC
CAGGGGACTGTCAACATCCAGGACGTGTGCTCCCTCCTCTGGGAGCCCTCACTGGCCGGCA
GTGAAGCCATCCCGCAGCCCGTGCAGGTAGCAGGAGGACAGCTCCGAATCCGAGG
GCACCGTGGCCCGCTCCTGAAGGSCCAACCTCGGGCACTGGGAGGCACGGCGCGGAGGAGG
AGCTGCCCCCGTGGGTCTGGAGCGGCCGAGGAGCGTCGCCCTTGTCCCCAAGGAAGATTCT
CGTTCTGCGGCCAGGGTCTCCTTGGCGGAGCAGGACGCCCGGTGGCGCTGGGCGCTCC
CGTGGCCACCTCGGTGTGATTTCAATCCAGTGTCCCATCCTGCTCTCAACACGCTTTCT
GGCCACCCGCACAGGCAGTCTGTGAGGGGAGAGCTACGACGGGGGGCCGCGGGCCGCGCAGC

Fig. 9B

CCCTTCG. CCGCAGCGGGGCTCCCCCTCTGCCTCGTCCACCCCTGTGGCGGGCGGACTTCC
 CCGACTGCACCTACCGCCCGAGCCGAGCCCAAGATGACGGCTTCCCCCTCTACGGCGACTT
 CCAGCGCCCGCCTCAAGATAAAGGAGGAGGAAGAAGCCGCCAGGCCGCGCGCTCCCCG
 CGTACGTACCTGTGGCTGTTGCAAAACCCCGCGCTTCCCGGACTTCCAGTGGCAGGCGCG
 CGCCACCCCTCGCTGCGGCTCGAGTGCCCTCGTCCAGACCCGGGGAAGCGCGGTGGCGGCCTC
 CCCAGGCAGTGCTCCGTCTCCTCCTCGTCTCTGTCGGGTGACCCCTGGASTGCATCCTGTAC
 AAGGCAGAAAGCGCGCCGCCAGCAGGGCCCTTCGCGCGCTGCCCTGCAAGCCTCCGGCG
 CGGGCGCCTGCTCCCGCGGACGGCCTGCCCTCCACCTCGCCTCGGGCGCAGCGCCGG
 GGCCGCCCTGGGCTTACCCGACGCTCGGCCTCAACGGACTCCCGCAACTCGGCTACAGGCC
 GCCGTGCTCAAGGAGGGCCTGCCGAGGTCTACAGCCCTATCTCAACTACCTGAGGCCGATT
 CAGAAGCCAGTCAGAGCCACAGTACAGCTTCGAGTCACTACCTCAGAAGATTTGTTGATCTG
 TGGGGATGAAGCATCAGGCTGTCAATATGGTGCTCACTGTGGGAGCTGTAGGTCTTCTTT
 AAAAGGCAATGGAAGGCGAGCATAACTATTATGTGTGGAAGAAATGACTGCATTGTTGATA

Fig. 9C

AAATCCGCAGGAAAAA CTGCCGGCGTGTCCCTTAGAAAGTGTCAAGCTGGCATGTCCT
TGGAGGGCGAAAGTTTAAAAAGTTCAATAAAGTCAGAGTCATGAGAGCACTCGATGCTGTGTCT
CTCCACAGCCAGTGGGCATTCCAAATGAAAGCCAAAGCAATCACTTTTTCTCCAAGTCAAGAGA
TACAGTTAATTCCTCCCTCTAAATCAACCTGTTAATGAGCATTGAACCCAGATGTGATCTATGCAGG
ACATGACAAACAAAAAGCCTGATACCTCCAGTTCCTTGTCTGACGAGTCTTAAATCAACTAGCGGAG
CGGCAACTTCTTTCAGTGGTAAAAATGGTCCAAATCTCTTCCAGGTTTTCGAAAACTTACATATTG
ATGACCAGATAAATCTCATCCAGTATTCTTGGATGAGTTTAAATGGTATTTGGACTAGGATGGAG
ATCCTACAAAACATGTCAGTGGGCAGATGCTGTATTTTGCACCTGATCTAATATTAAATGAACAG
CGGATGAAAGAATCATCATTTCTATTCACTATGCCTTACCATGTGGCAGATACCGCAGGAGTTTG
TCAAGCTTCAAGTTAGCCAAAGAAGAGTTCCTCTGCATGAAAGTATTACTACTTCTTAATACAAT
TCCTTTTGAAGGACTAAGAAGTCAAAGCCAGTTTGAAGAGATGAGATCAAGCTACATTAGAGAG
CTCATCAAGGCAATTGGTTTGAAGCAAAAAAGGAGTTGTTTTCCAGCTCACAGCGTTTCTATCAGC
TCACAAAAAATTCTTGTATAACTTGCATGATCTTGTCAAAACAACTTCACCTGTA CTGCCTGAATAC

Fig. 9D

ATTTATCCAGTCCCGGGCGTCAGTGTGAATTTCCAGAAATGATGTCAGAGTTATTGCTGCA
 CAGTTACCCCAAGATATTGGCAGGATGGTAAACCACTTCTCTTTTCATAAAAAAGTGAATGTCAA
 TTATTTTCAAAGAAATTAAGTGTGTGGTATGTCTTTTCGTTTTTGGTCAGGATTTATGACGTCCTCG
 AGTTTTTATAATATTCTGAAAGGGAATTCCTGCAGCCCGGGGATCCACTAGTTCTAGAGGATC
 CAGACATGATAAGATAACATTGATGAGTTTGGACAAACCAACTAGAAATGCAGTGAAAAAAAATG
 CTTTATTGTGAAATTTGTGATGCTATTGCTTTATTGTAAACCATTAAGCTGCAATAAACAA
 GTTAACAACAACAATTGCAATTCATTTTATGTTTCAGGTTCAGGGGAGGTGTGGAGGTTTTTTT
 AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCGTCGTG
 GCCGGACACGCTATCTGTCAAGGTCCCCGGACGGCGCTCCATGAGCAGAGCGCCCGCCGCC
 GAGGCAAGACTCGGGCGGCCCTGCCCGTCCCAACAGGTCAACAGCGGTAAACCGGCCTCTTC
 ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCTGGCGGACGGGAAGTATCAGCT
 CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAATCACTGGAT
 ATACCAACGTTGATATATCCCAATGGCATCGTAAAGACATTTTGGGCATTTTCAGTCAGTTGCG

Fig. 9E

TCAATGTACTATAACAGACCGTTCAGTGCATTAAATGAATCGCCAAACGCGGGGAGAGGC
 GGTTTGCGTATTGGCGCTCTTCGCTTCCTCGCTCACTGACTCGTGCCTCGTTCGTTCGGC
 TCGCGGAGCGGTATCAGCTCACTCAAAGCGGTAATAAGGTTATCCACAGAAATCAGGGGATAA
 CGCAGAAAGAACATGTGACAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
 CTGGCGTTTTCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA
 GGTGGCAAAACCCGACAGGACTATAAGATACACAGGCGTTTCCCCCTGGAAAGCTCCCTCGTGCG
 CTCTCCTGTTCGGACCTGCCGCTTACCGGATACCTGTCCGCCCTTTCTCCCTTCGGGAAGCGTG
 GCGCTTTCTCAATGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGTTCGTTCGCTCCAAGCTGG
 GCTGTGTGCAGAACCCCCCGTTACAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTTGA
 GTCCAAACCGGTAACACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
 GCGAGGTATGTAGCGGTGTCTACAGAGTTCTTTGAAGTGTGGCCCTAACTACGGCTACACTAGAA
 GGACAGTATTTGGTATCTGGCTCTGTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
 TTGATCCGGCAAAACAAACACCGCTGGTAGCGGTGGTTTTTTTTTTGTTTGAAGCAGCAGATTACG

Fig. 9F

CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCAGTTAAGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTTCATCCATAGTTG
CCTGACTCCCCGTGCTGTAGATAAACTACGATACGGAGGGCTTACCATCTGGCCCCAGTGCTGC
AATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAAACGAGCCAGCCGGA
AGGGCCGAGCGCAGAAGTGTCTCTGCAACTTTATCCGGCTCCATCCAGTCTATTAAATTGTTGCC
GGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGGCGCAACGTTGTTGCCAATTGCTACAGG
CATCGTGGTGTCA CGCTCGTCGTTTGGTATGGCTTCATT CAGCTCCGGTTCCCAACGATCAAGG
CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCTCTCCGATCGTTG
TCAGAAATAAGTTGGCCCGCAGTGTATCACTCATGTTATGGCAGCACTGCATAAATCTCTTAC
TGTCTATGCCATCCGTAAGATGCTTTTCTGTGACTGTGTAGTACTCAACCAAGTCATTCTGAGAA
TAGTGTATGCGGCGACCGAGTTGCTCTTGCCGGCGTCAATA CGGGATAATACCGGCCACACATA

Fig. 9G

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GCAGAACTTTAAAGTGCTCATCATTTGGAAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTT
ACCGCTGTTGAGATCCAGTTCGATGTAAACCCACTTCGTGCACCCAACTGATCTTCAGCATCTTTT
ACTTTCACCAAGCGTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAA
GGCGGACACGGAAATGTTGAATACTCATACTCTTCCTCTTTTCAATATTATTGAAGCATTATCA
GGGTTATTGTCATGAGCGGATACATATTGAAATGTATTTAGAAAAATAAACAAAATAGGGGTT
CCGCGCACATTTCCCGAAAAAGTGCCACCTGACGTCCTAAGAAACCATTATTATCATGACATTAA
CCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTC

Fig. 9H

CTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAGTCGAGTTTACCACCTCCCTATC
 AGTGATAGAGAAAAGTGAAGTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAGT
 CGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAGTCGAGTTTACCACCTCCCTATCAG
 TGATAGAGAAAAGTGAAGTCGAGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAGTCG
 AGTTTACCACTCCCTATCAGTGTATAGAGAAAAGTGAAGTCGAGTCGGTACCCGGGTCGAGTA
 GCGGTGTACGGTGGGAGGCTTATAAAGCAGAGCTCGTTTGTGTAAACCGTCAGATCGCCTGGAG
 ACGCCATCCACGCTGTTTGTACCTCCATAGAGACACCGGACCGATCCAGCCTCCGCGGCCCC
 GAATTCCGCCACGACCATGACCCCTCCACACCAAAAGCATCTGGGATGGCCCTACTGTCA
 TCAGATCCAAGGGAACGAGCTGGAGCCCTGAACCGTCCGAGCTCAAGATCCCCCTGGAGCGG
 CCCCCTGGCGAGGTGTACTGGACAGCAGCAAGCCCGCGGTACAACTACCCCGAGGCGCGG
 CCTACGAGTTCAACGCCGGGCGCGGCCAACGCGCAGGTCTACGGTCAGACCGGCTCCCCCTA
 CGGCCCCGGGTCTGAGGCTCGGGCTCGGCTCCAACGGCTGGGGGTTTCCCCCCTCAACTCAAC
 AGCGTGTCTCCGAGCCGCTGATGCTACTGCACCCGCGCGCAGCTGTGCGCTTTCCTGCAGC

Fig. 10A

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCACAGCGGCTACACGGTGC GGAGGC
CGGCCCGCGGCAATCTACAGGCCAAATTCAGATAATCGACGCCAGGGTGGCAGAGAAAGATTG
GCCAGTACCAATGACAAAGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAG
TGTGCAATGACTATGCTTCAGGCTACCATTTATGGAGTCTGGTCCTGTGAGGGCTGCAAGGCCTT
CTTCAAGAGAAGTATTCAGGACATAACGACTATATGTGTCCAGCCACCACAGTGCACCAATT
GATAAAAACAGGAGGAAGCTGCCAGGCCTGCCGGCTCCGCAATGCTACGAAGTGGGAATGA
TGAAAGGTGGGATACGAAAAGACCGAAGAGGAGGGAGAAATGTTGAAACACAAGCGCCAGAGAGA
TGATGGGGAGGGCAGGGGTGAAGTGGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCA
AGCCCGCTCATGATCAAAACGCTCTAAGAAAGACAGCCCTGGCCCTTGTCCTGACGGCCGACCCAGA
TGGTCATGGCCCTTGTTGGATGCTGAGCCCCCATACTCTATTCCGAGTATGATCCTACCAGACC
CTTCAGTGAAGCTTCGATGATGGGCTTACTGACCAACCTGGCAGACAGGGAGCTGGTTACATG
ATCAACTGGGCGAAGAGGGTGCCAGGCTTTGTGGATTGTGACCTCCATGATCAGGTCCACCTTC
TAGAATGTGCTGGCTAGAGATCCTGATGATTTGGTCTCGTCTGGCGCTCCATGGAGACCCAGT

Fig. 10B

GAAGCTACTGTTTGCTCTAACTTGTCTTTGGACAGGAACCAAGGAAAAATGTGTAGAGGGCATG
GTGGAGATCTTCGACATGCTGGCTACATCATCTCGGTTCCGATGATGAATCTCGAGGAG
AGGAGTTTGTGTGCCTCAATCTATTATTTTGTAAATTCTGGAGTGTACACATTTCTGTCCAG
CACCCCTGAAGTCTCTGGAAGAGAACCATATCCACCGAGTCTTGGACAGATCACAGACACT
TTGATCCACCTGATGGCCAAAGCAGGCCCTGACCTGCAGCAGCAGCACCCAGCGGTGGCCCCAGC
TCCTCCTCATCCTCTCCCACATCAGGCACATGAGTAACAAAGGCATGGAGCATCTGTACAGCAT
GAAGTGCAAGAACGTGGTGCCCTCTATGACCTGCTGTGGAGATGCTGGACGCCCCACCGCCTA
CATGCGCCCACTAGCCGTGGAGGGGCATCCGTGGAGGAGACGGACCAAAAGCCACTTGGCCACTG
CGGGCTCTACTTTCATCGCATTCCTTGCAAAAGTATTACATCACGGGGAGGCAGAGGGTTTCCC
TGCCACAGTCTGAGAGCTCCCTGGCGGAATTCGAGTCGGTACCCGGGGATCCTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCAACTAGATGCACTGAGTGAATAAATG
CTTTATTGTGAAATTGTGATGCTATTGCTTTATTTTGTAAACCATTATAAGCTGCAATAAACAA
GTTAACAAACAACAAATTGCATTCAITTTTATGTTTCAGGTTTCAGGGGGAGGTTGTGGGAGGTTTTTT

Fig. 10C

AAAGCAAGTAAACCTCTACAAATGGTATGGCTGATTATGATCCTGCAAGCCTCGTCGTCTG
 GCCGGACACGCTATCTGTGCAAGGTCCCGGACCGCGCTCCATGAGCAGAGCGCCCGCGGCC
 GAGGCAAGACTCGGGCGGCCCTGCCCGTCCACACAGGTCAACAGGCGGTAAACGGCCCTCTTC
 ATCGGGAATGCGGCGACCTTCAGCATCGCCGGCATGTCCCCTGGCGGACGGGAAGTATCAGCT
 CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAAATCACTGGAT
 ATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAAGCATTTTCAGTCAGTTGC
 TCAATGTACTATAACCAAGACCGTTCAGCTGCATTAAATCGGCCAACGCCGGGGAGAGGC
 GGTTTGGTATTGGCGCTCTTCGCTTCCTCGCTCACTGACTCGCTCGCTCGGTCGTTCTGGC
 TGCGGCGAGCGGTATCAGCTCACTCAAAGCGGTAAATACGTTATCCACAGAAATCAGGGGATAA
 CGCAGAAAGAACATGTAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG
 CTGGCGT. ITTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGA
 GGTGGCAAAACCCGACAGGACTATAAGATACCAGCGGTTTCCCCCTGGGAAGCTCCCTCGTGCG
 CTCTCCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTG

Fig. 10D

GGGCTTTCTCAATGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTGGTCCAAGCTGG
GCTGTGTGACGAAACCCCGGTTACGCCCGACGGCTGCGCCTTATCCGGTAACTATCGTCTTGA
GTCCAAACCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
GCGAGGTATGTAGGCGGTGCTACAGAGTTCCTGAAGTGTGGCCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGTGAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCCGCAAAACAAACACCGCTGGTAGCGGTGGTTTTTTTTTTGTTTGCAAAGCAGCAGATTACG
CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGCTGTGACGCTCAGTGGA
ACGAAACTCAGCTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTG
CCTGATCCCCGTCGTGTAGATAACTACGATACGGGAGGCTTACCATCTGGCCCCAGTGCTGCA
ATGATACCGCGAGACCCAGCTCACCGGCTCCAGATTTATCAGCAATAAACCGAGCCAGCCGGAA
GGGCCGAGCGCAGAAGTGGTCCCTGCAACTTTTATCGGCTCCATCCAGTCTATTAAATTGTTGCCG

Fig. 10E

GGAAGCT? GAGTAAGTAGTTCGCCAGTTAATAGTTTGGCAACGTTGTTGCCATTGCTACAGGC
 ATCGTGGTGTACGGCTCGTTCGTTTGGTATGGCTTCATTAGCTCCGGTTCCTCAACGATCAAGGC
 GAGTTACATGATCCCCCATGTTGTGCAAAAAGCGTTAGCTCCTTCGGTCTCTCCGATCGTTGT
 CAGAAAGTAAGTTGGCGCAGTGTATCACTCATGTTATGGCAGCACTGCATAAATCTCTTACT
 GTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTTCTGAGAAAT
 AGTGATGGCGGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAG
 CAGAACTTTAAAGTGCTCATCATTTGGAAAAAGTTCTTCGGGGCGAAAACTCTCAAGGATCTTA
 CCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTA
 CTTTCAACGCGTTTCTGGGTGAGCAAAAAAGGAAGCAAAATGCCGCAAAAAAGGAATAAG
 GGCGACACGGAAATGTTGAATACATCATCTCTCTCTTTTCAATATTATTGAAGCATTTATCAG
 GGTATTGTCTCATGACGGATACATATTGTAATGATTAGAAAAATAACAATAAGGGTTC
 CGGCGACATTTCCCGAAAGTGCCACCTGACGCTAAGAAACCATTTATTATCATGACATTAAAC
 CTATAAAAATVAGCGGTATCACGAGGCCCTTTTCGTC

Fig. 10F

FIG. II

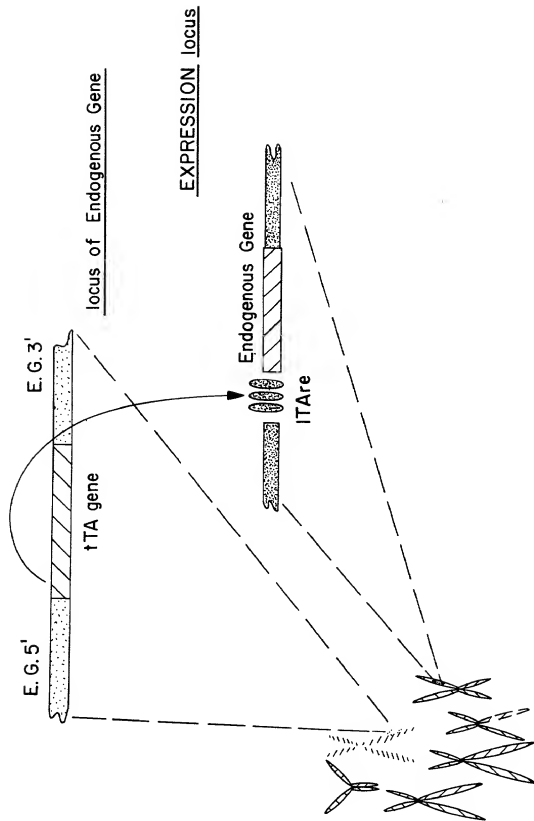


FIG. 12

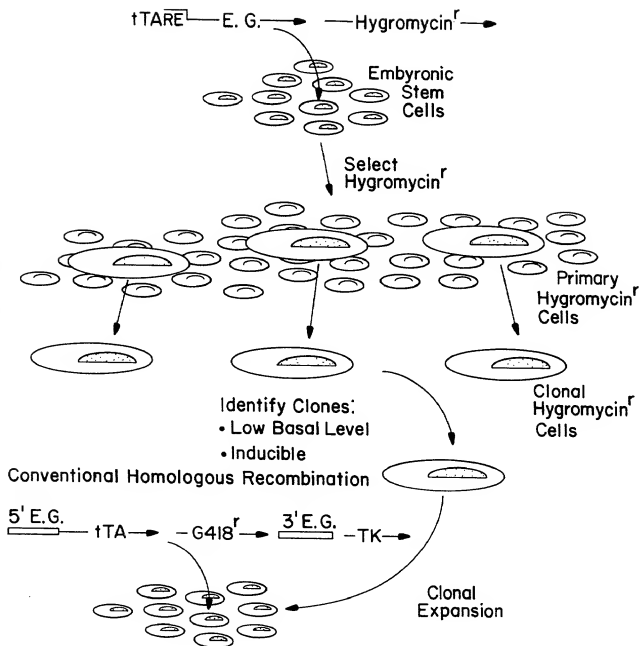


FIG. 13A

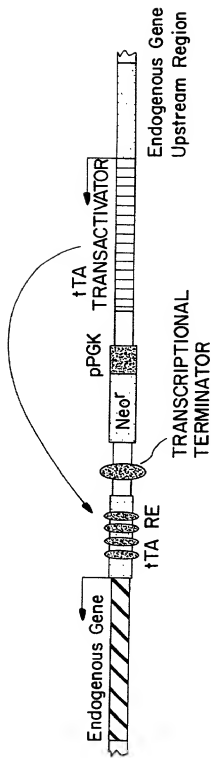


FIG. 13B

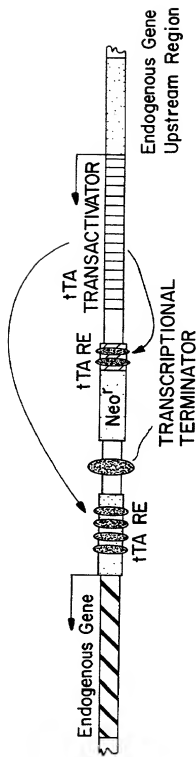


FIG.14

